Claim

- [1] An expression vector having a polynucleotide which hybridizes with a complementary chain of the polynucleotide represented by SEQIDNO: 8 under a stringent condition and also encodes a polypeptide that has the activity of hydroxylating the 24-position of an oleanane type triterpene.
- [2] The expression vector described in claim 1, wherein the polynucleotide is the polynucleotide represented by SEQ ID NO:8.
- [3] A transformant in which a host is transformed with the expression vector described in claim 1 or 2.
- [4] The transformant described in claim 3, wherein the host is a microorganism.
- [5] The transformant described in claim 4, wherein the microorganism is a yeast.
- [6] An expression vector having: a polynucleotide which hybridizes with a complementary chain of the polynucleotide represented by SEQIDNO: 8 under a stringent condition and also encodes a polypeptide that has the activity of hydroxylating the 24-position of an oleanane type triterpene; and a β -amyrin synthase gene.
- [7] The expression vector described in claim 6, wherein the polynucleotide is the polynucleotide represented by SEQ ID NO:8.

- [8] A transformant in which a host is transformed with the expression vector described in claim 6 or 7.
- [9] The transformant described in claim 8, wherein the host is a microorganism.
- [10] The transformant described in claim 9, wherein the microorganism is a yeast.
- [11] A lanosterol synthase deficient yeast mutant strain deposited as FERM BP-10201.
- [12] A method for producing a polypeptide that has the activity of hydroxylating the 24-position of an oleanane type triterpene, which comprises: a step of culturing the transformant described in any one of claims 3 to 5; and thereby producing the polypeptide described in claim 1.
- [13] A method for producing: a polypeptide that has the activity of hydroxylating the 24-position of an oleanane type triterpene; and a β -amyrin synthase, which comprises culturing the transformant described in any one of claims 8 to 10,
- a step for producing the polypeptide described in claim
 and
- 2) a step for producing the β -amyrin synthase.
- [14] A method for producing an oleanane type triterpene in which the 24-position is hydroxylated, which comprises a step of allowing the transformant described

in any one of claims 3 to 5 to act upon an oleanane type triterpene.

- [15] A method for producing an oleanane type triterpene in which the 24-position is hydroxylated, by culturing the transformant described in any one of claims 8 to 10.
- [16] A method for producing an oleanane type triterpene in which the 24-position is hydroxylated, by culturing the yeast mutant strain described in claim 11.